

Work Order ID 164005

164005

Page 1

Tuesday, July 11, 2017 7:21:21 AM

Item ID: D2646 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Aft Cap
 Start Date: 7/11/2017 Start Qty: 50.00 *50* Cust Item ID:
 Required Date: 7/26/2017 Req'd Qty: 50.00 *50* Customer:

Reference:

DAS
13
9-89

JUL 11 2017

Approvals: Process Plan: Date: Tooling: Date:
 QC: Date: SPC (Y/N): Date:

Run Start *NR1*
 Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2646	Rev C								
100	PURCHASING	0.00				50			WJB 12/07/11
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: 37002 - 1-Spin as per Dwg D2646 2-Material release note required								
	Vendor: Sieg's Manufacturing								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	1.00							
Packaging	Ensure Material Release Note is attached								
120	QC6- All purchased or subcontracted products	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
38
9-89
JUL 18 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
230 87 58-6				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐	

Work Order ID 164005***164005***

Page 3

Tuesday, July 11, 2017 7:21:21 AM

Item ID: D2646 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Aft Cap
Start Date: 7/11/2017 Start Qty: 50.00 ***50*** Cust Item ID:
Required Date: 7/26/2017 Req'd Qty: 50.00 ***50*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160 *160* Powdercoat Powder Coating	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum <i>M 138014</i> Memo START TIME: <i>10:40</i> OVEN TEMPERATURE: <i>500°</i> FINISH TIME: <i>11:10.</i>	0.00 0.60				<i>50</i>	<i>0</i>	<i>1708-31</i>	<i>9-30</i>
170 *170* QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.50		DAS 30 9-89		<i>(50)</i>		SEP 05 2017	
180 *180* Small Fab Small Fab	Small Fab Memo Install inserts as per Dwg D2646	0.00 0.96				<i>50</i>	<i>0</i>	SEP 05 2017	DAS 19 9-30

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐			
Misidentified ☐	Past Due ☐																																																																

Work Order ID 164005***164005***

Page 4

Tuesday, July 11, 2017 7:21:21 AM

Item ID: D2646 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Aft Cap
Start Date: 7/11/2017 Start Qty: 50.00 ***50*** Cust Item ID:
Required Date: 7/26/2017 Req'd Qty: 50.00 ***50*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190 *190* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 1.00				<u>x50</u>	<u>d</u>	<u>17/09/05</u>	DAS 15 9-89
200 *200* Packaging Packaging	Identify as per dwg & Stock Location: <u>FP-001</u> Memo LOCATION : FP001	0.00 0.50				<u>x50</u>	<u>d</u>	<u>17/09/05</u>	
210 *210* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 5.00						<u>17/9/6</u>	DAS 21 9-89

UN SEP 05 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

Picklist Print

Tuesday, July 11, 2017 7:21:20 AM

Page 1

Work Order ID: 164005

164005

Parent Item: D2646

D2646

Parent Item Name: Aft Cap

Start Date: 7/11/2017

Required Date: 7/26/2017

Start Qty: 50.00

Required Qty: 50.00

Comments: IPP: G05.08.22Hole size revised in Step 5KJ/JLM
IPP Rev:H Changed Inserts 07-02-19 JLM
IPP rev I changed inserts 07.06.11 EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
ALS7-1032-130	AELS8-1032-130	Purchased	No			110	Each	2,029.000	2	100			
AI S7-1032-130									**			SEP 05 2017	DAS 19 9-09
Rivnut													

ALS4-1032-130

not pulled

Location	Loc Qty	Loc Code
FG	100	
M128649	50	
M136048	50	
FP001	1919	
M128649	155	
M136579	1764	
ST556	10	
M136048	10	

D2646P

Purchased

No

180

Each

0.0000

1

50

D2646P

Aft Cap

**

50x8p/7-7-18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

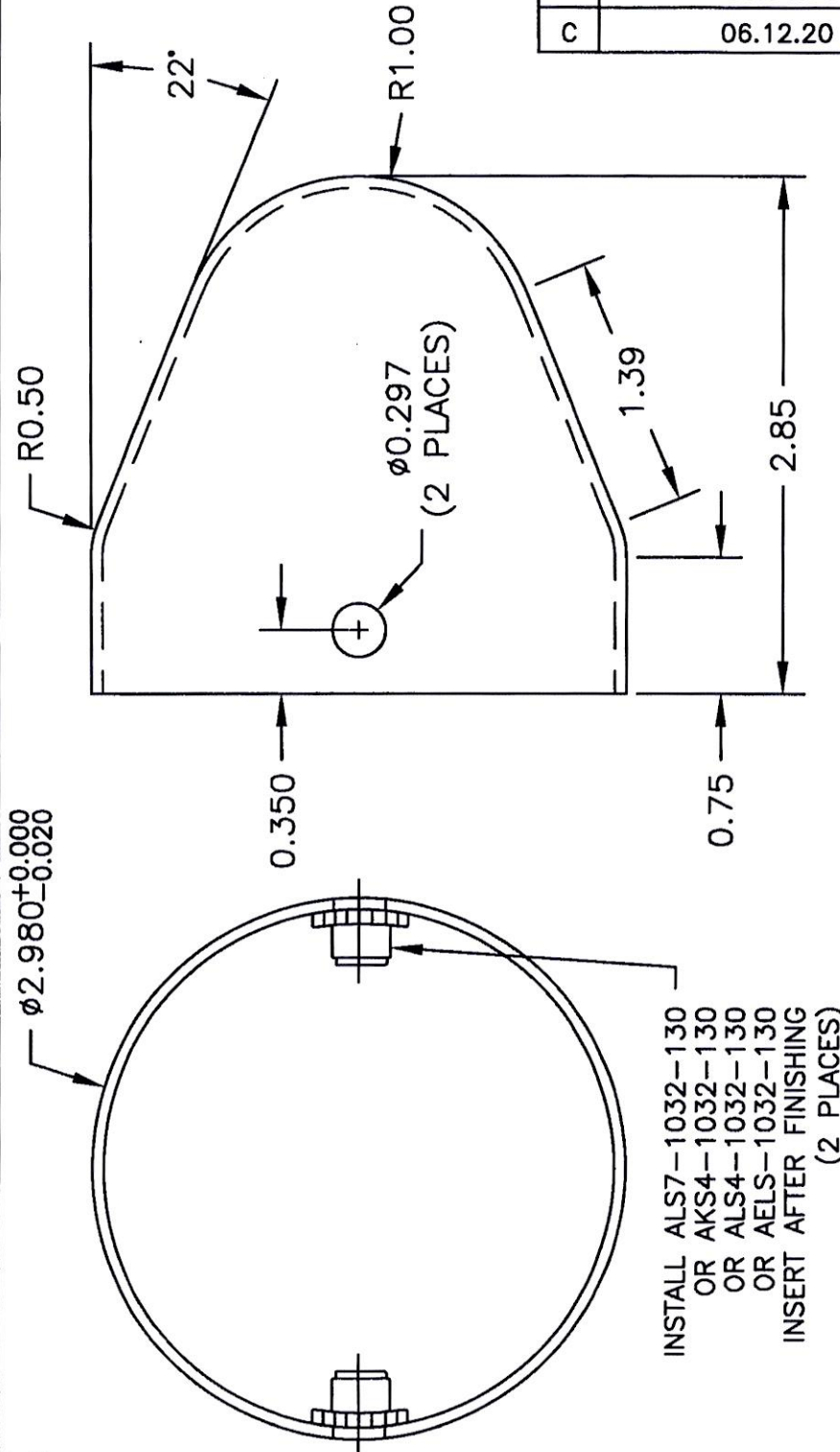
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
240 18 240								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									



DESIGN DS		DRAWN BY PH		DART AEROSPACE USA, INC. PORT HADLOCK, WA	
CHECKED [Signature]		APPROVED [Signature]		DRAWING NO. D2646	REV. C SHEET 1 OF 1
DATE 06.12.20				TITLE AFT CAP SCALE 1:1	
A	97.03.25			NEW ISSUE	
B	05.04.01			CHANGE TO CLOSED INSERTS	
C	06.12.20			CHANGE TO OPEN ENDED INSERTS	



RELEASED
07.02.12

- D2646 AFT CAP**
- 1) MATERIAL: ALUMINUM 1100-0 0.063 THICK (QQ-A-250/1)
 - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT ASSEMBLY WHITE (4.3.5.1) PER DART QSI 005 4.3
 - 3) ALL DIMENSIONS ARE IN INCHES
 - 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

DAS
13
9-89

JUL 11 2017

W10' 164005

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37002**

Purchase Order Date 7/11/2017 12:51:13 PM
PO Print Date 7/11/2017

Page Number 1 of 2

Order From :

VC-SIE001

Ship To : DART AEROSPACE LTD

SIEG'S MANUFACTURING LTD.
6236 - 205 STREET
LANGLEY, BC V2Y 1N7
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
JUL 12 2017

Contact Name

Vendor Phone 604 530 7455

Ship To Contact

Ship To Phone

Ship Via: FedEx Overnight collect

Ship Acct:

Buyer

Diane Baker

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D2646P AS PER DWG D2646 REV. C B164005	Aft Cap	7/11/2017 Yes 7/11/2017 8/8		50.00 Each	\$6.70	\$335.00
Line Total:							\$335.00
3	71401-45 Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents	PROCUREMENT QUALITY CLAUSES	7/11/2017 No 7/11/2017 8/8		1.00	\$0.00	\$0.00

Note:

7/11/2017



Sieg's Manufacturing Ltd.
Quality Metal Spinning
Website: www.siegsnfg.com

Packing Slip

Packing Slip No.: 48294
Date: 07/14/2017
Page: 1

6236 205 Street Langley, British Columbia, Canada V2Y 1N7
Phone: (604) 530-7455 ~Email: accounts@siegsnfg.com

Sold to: DART AEROSPACE LTD. 1270 ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7		Ship to: DART AEROSPACE LTD. 1270 ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7		
Order No.: Po37002		Sold By: LOWEY, ARLA		
Shipped By:		Ship Date:		
Tracking No.:				
Item No.	Unit	Description	Quantity	Backorder quantity
D2646	Each	Aft CAP	50	
Sent 7-18				
Comment:				

D4
38
9-89



6236 205 Street Langley, B.C. Canada V2Y 1N7
Ph#: (604)530-7455 arlawey@siegsfmfg.com

INSPECTION REPORT

Date: July 14 2017

Customer: Dart Areospace

Packing Slip: 48294

Part#:	Quantity	Material	Check holes	Insp. By.
D2646	50	14g 1100	N/a	AL

Notes:

Material Certification Attached: ____YES____

DELIVERY NOTE

thyssenkrupp Materials NA 19000 957 Avenue Surrey BC V4N 1P2

SIEGS MANUFACTURING LTD.
6236 205 ST
LANGLEY BC V2Y 1N7



DATE: 02/17/2017
DOC. NO: 2405026975*
BOL. NO: 2405026975
ORDER NO: 1403096944
YOUR P/O: 2083
CUSTOMER NO: 10007550
Route: 308UM
CONTACT: Timothy Skidmore
TEL: 800-926-2600
FAX: 888-926-2600
EMAIL: timothy.skidmore@thyssenkrupp.com

PST-1001-1682 OLD PST# R292133

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO.
100	ALFLR01243 110J Aluminum O Sheet 0.06300 (+ -.0035) X Width 48.0000 (+ -.125) X Length 144 (+ -.125) Nominal Chemistry/Act Physical Standard Packaging	100 PC 4,267.469 lb	1007149777 1007149792
	TAGNUM QTYUOM VEND VENDPO HLOT PCS		
	1006859635 74PC SKANA ALU 5400320485 11U808		74
	ROHS COMPLIANT:ASTM B209 2014		
	1006859638 26PC SKANA ALU 5400320485 11U808		26
	ROHS COMPLIANT:ASTM B209 2014		

Total Gross Weight 4567.469 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid

CERTIFICATION OF COMPLIANCE

We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state or MSDS sheets go to www.copperandbrass.com. We hereby certify that the material above complies with the above specifications.

Thomas Sanchez - Director of Quality Assurance





Skana Aluminum Co
Rolling Mill - Certified Metal
Certification of Properties and Analysis

Physical test: 11U808 Aluminum Alloy: 1100 Temper: -O- Thickness: .0630
Tested For: Copper and Brass Sales 6156 PO No: 5400320485-R01

Chemical	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others	Al
Min Range			0.05					0.1		0.05	
Max Range	95 Si	+ Fe	0.20	0.05							

Master Coil #	1	2	3	4
Tensile Strength KSI	14.40	13.76	14.64	13.94
Yield Strength KSI	5.18	5.16	5.20	5.03
% Elong. in 2 in.	32.00	33.00	32.20	32.90

Master Coil #
Tensile Strength KSI
Yield Strength KSI
% Elong. in 2 in.

Master Coil #
Tensile Strength KSI
Yield Strength KSI
% Elong. in 2 in.

Master Coil #
Tensile Strength KSI
Yield Strength KSI
% Elong. in 2 in.

Remarks: Tested By: JD

Certified Date: 04 Nov 2016

Certified By
Lab Manager

Donna Compton

JD .063 X 48.000 MF 4/4

ITEM # ALFLR01243

MEETS/EXCEEDS ASTM B209-14 SPECS.

BLANKS: COILS TO PRESSROOM

Friday, November 04, 2016

Melted/Manufactured in USA

QF 824-1-1

Page 1 of 1

From: TK Materials CA, Ltd.

Cust. SIESS MANUFACTURING LTD.

CstAr

Wgt.: 4,267.469 LB

Del.: 2405026975

CstOr 2083

Date 02/07/2017

Thomas Sanchez

Skana Aluminum Company

Rolling Mill - Certified Metal

Certification of Properties and Analysis

Physical test: 11U808 Aluminum Alloy: 1100 Temper: -O- Thickness: .0630
 Tested For: Copper and Brass Sales 6156 PO No: 5400320485-R01

	Chemical	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others	Al
	Min Range	..	..	0.05	..	..	..	..	..	..	0.05	..
	Max Range	.95 Si	+ Fe	0.20	0.05	..	..	..	0.1	..	..	..

1	14.40	5.18	32.00	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.15	.39	.10	.01	.01	.00	.01	.01	.01	.00
	Al 99.20												

2	13.76	5.16	33.00	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.15	.39	.10	.01	.01	.00	.01	.01	.01	.00
	Al 99.20												

3	14.64	5.20	32.20	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.15	.39	.10	.01	.01	.00	.01	.01	.01	.00
	Al 99.20												

4	13.94	5.03	32.90	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.15	.39	.10	.01	.01	.00	.01	.01	.01	.00
	Al 99.20												

Remarks: Tested By: JD

Certified Date: 04 Nov 2016

Certified By: Donna Compton
 Lab Manager

JD .063 X 48.000 MF 4/4

ITEM # ALFLR01243

MEETS/EXCEEDS ASTM B209-14 SPECS.

BLANKS: COILS TO PRESSROOM

Friday, November 04, 2016

Melted/Manufactured in USA QF 824-1-2

From: TK Materials CA, Ltd.

Cust: SIFGS MANUFACTURING LTD.

Del.: 2405026975

CstAr

CstOr 2083

Wgt.: 4,267.469 LB

Date 02/07/2017

Thomas Sanchez

ThyssenKrupp Materials NA
Copper and Brass Sales Division
19044 95A Avenue
SURREY BC V4N 4P2
Tel: +16048823493 Fax: +16048820666



Order number	Ord-pos	Del-pos	Part description
Customer PO	PO date	Quantity	Customer Part
MTR header	MTR type	Search criteria	Heat lot
			Sample number
C8A/1403096944	000010	900001	1100 Aluminum O Sheet 0.06300 (+-.0035)
2083	01/30/2017	74 ST	
Att_001.PDF	NCAP	930493817720160002	11U808
C8A/1403096944	000010	900002	1100 Aluminum O Sheet 0.06300 (+-.0035)
2083	01/30/2017	26 ST	
Att_001.PDF	NCAP	930493817720160003	11U808

Delivery number
2405026975
Date
02/06/2017

SIEGS MANUFACTURING LTD.
6236 205 ST
LANGLEY V2Y 1N7
CANADA